

Appl. No.: 10/707,403
 Amdt. Dated: 2/20/2006
 Reply to Office action of: 12/08/2005

AMENDMENTS TO THE SPECIFICATION:

Kindly replace paragraph [0021] with the following amended paragraph:

$$[0021] \quad W_{\text{opt}}(e^{j\omega}) = \frac{S_{dx}(e^{j\omega})}{S_{xx}(e^{j\omega})}$$

Kindly replace paragraph [0024] with the following amended paragraph:

$$[0024] \quad W_{\text{opt}}(e^{j\omega}) = \frac{S_{dd}(e^{j\omega})}{S_{xx}(e^{j\omega})}$$

Kindly replace paragraph [0049] with the following amended paragraph:

$$[0049] \quad H_e(e^{j\omega}) = \frac{S_r(e^{j\omega})}{S_e(e^{j\omega})}$$

Kindly replace paragraph [0052] with the following amended paragraph:

$$[0052] \quad H_n(e^{j\omega}) = \frac{S_n(e^{j\omega})}{S_y(e^{j\omega})}$$

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Kindly replace paragraph [0054] with the following amended paragraph:

$$[0054] \quad W(e^{j\omega}) = (1 - H_e(e^{j\omega}))(1 - H_n(e^{j\omega}))$$

Kindly replace paragraph [0067] with the following amended paragraph:

$$H_e(e^{j\omega}) = \frac{S_r(e^{j\omega})}{S_e(e^{j\omega})}$$

$$[0067] \quad H_n(e^{j\omega}) = \frac{S_n(e^{j\omega})}{S_y(e^{j\omega})}$$

Kindly replace paragraph [0070] with the following amended paragraph:

$$H_e(e^{j\omega}) = \frac{S_r(e^{j\omega})}{\max(S_e(e^{j\omega}), \epsilon)}$$

$$H_n(e^{j\omega}) = \frac{S_n(e^{j\omega})}{\max(S_y(e^{j\omega}), \epsilon)}$$

[0070]

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Kindly replace paragraph [0073] with the following amended paragraph:

$$H_e(e^{j\omega}) = \min\left(\frac{S_r(e^{j\omega})}{\max(S_e(e^{j\omega}), \epsilon)}, h_{max}\right)$$

$$H_n(e^{j\omega}) = \min\left(\frac{S_n(e^{j\omega})}{\max(S_y(e^{j\omega}), \epsilon)}, h_{max}\right)$$

[0073]

Kindly replace paragraph [0075] with the following amended paragraph:

$$H_e(e^{j\omega}) = \alpha H_e(e^{j\omega}) + (1 - \alpha) H_e(e^{j\omega})_{prev}$$

$$H_n(e^{j\omega}) = \alpha H_n(e^{j\omega}) + (1 - \alpha) H_n(e^{j\omega})_{prev}$$

[0075]

Kindly replace paragraph [0079] with the following amended paragraph:

$$S_y(k+1, e^{j\omega}) = 0.9 \cdot S_y(k, e^{j\omega}) + 0.1 \cdot \left\{ 1 - \left[(1 - \delta) + \delta \cdot H_e(k, e^{j\omega}) \right]^2 \right\} \cdot S_e(k, e^{j\omega})$$

[0079] $S_r(k+1, e^{j\omega}) = (1 - \beta_e) \cdot S_r(k, e^{j\omega}) + \beta_e \cdot \left[(1 - \delta) + \delta \cdot H_e(k, e^{j\omega}) \right]^2 \cdot S_e(k, e^{j\omega})$

$$S_n(k+1, e^{j\omega}) = (1 - \beta_r) \cdot S_n(k, e^{j\omega}) + \beta_r \cdot \left[(1 - \delta) + \delta \cdot H_r(k, e^{j\omega}) \right]^2 \cdot S_y(k, e^{j\omega})$$

Kindly replace paragraph [0082] with the following amended paragraph:

$$S_r(e^{j\omega}) = S_e(e^{j\omega}) |H_e(e^{j\omega})|^2$$

[0082] $S_n(e^{j\omega}) = S_y(e^{j\omega}) |H_n(e^{j\omega})|^2$